

# Daker Dk

## Conventional UPS - Single phase On-line double conversion VFI

Cat. Nos.	3 100 50	3 100 51	3 100 52	3 100 53	3 100 56	3 100 54	3 100 57	3 100 58	3 100 59
General characteristics									
Nominal power (VA)	1000	2000	3000	4500		6000		10000	10000
Active power (W)	800	1600	2400	4050		5400		9000	9000
Technology	On-line double conversion VFI-SS-111								
Waveform	Sinusoidal								
Architecture	Convertible tower and 19" rack								
Input characteristics									
Input voltage	230 V								380V 3F+N
Input frequency	50-60 Hz ± 5% autosensing								
Input voltage range	160 V - 288 V full load								277V - 485V
THD of input current	< 3%								
Input power factor	> 0.99								
Compatibility with gensets	Configurable for synchronism between the input and output frequencies, even for the highest frequency ranges, ± 14%								
Output characteristics									
Output voltage	230 V ± 1%								
Output frequency (nominal)	50/60 Hz (configurable via LCD panel) +/- 0.1%								
Peak factor	1:3								
THD of output voltage	< 3% with linear load								
Output voltage tolerance	± 1%								
Bypass	Automatic bypass and optional external manual bypass								
Batteries									
Backup time extension	Yes								
Number of batteries	3	6	6	20	-	20	-	-	-
Battery range type/voltage	12 V 7.2 Ah	12 V 7.2 Ah	12 V 9 Ah	12 V 5 Ah	-	12 V 5 Ah	-	-	-
Backup time (min)	10	10	8	6	-	4	-	-	-
Communication and management									
Screen and signalling	Four buttons and four LEDs for real-time control of the status and the main parameters of the UPS								
Communication ports	RS232 and USB serial ports			RS232 serial ports					
Remote control	Available								
Connector for network interface	SNMP								
Back feed protection	yes								
Emergency power off (EPO)	yes								
Mechanical characteristics									
Dimensions (H x W x D) (mm)	440x88 (2U) x405	440x88 (2U) x650	440x88 (2U) x650	440x176 (4U) x680	440x88 (2U) x680	440x176 (4U) x680	440x88 (2U) x680	440x132 (3U) x680	
Net weight (kg)	16	29.5	30	52	25*	52	25*	26*	
Dimensions of battery cabinet H x W x D (mm)	440x176 (4U) x405	440x88 (2U) x650	440x88 (2U) x650	-	440x132 (3U) x680	-	440x132 (3U) x680	440x132 (3U) x680	
Ambient conditions									
Operating temperature (°C)	0 ÷ 40°C								
Protection index	IP 21								
Relative humidity (%)	20 to 80%								
Noise at 1 m (dBA)	< 50								
Heat dissipation (BTU/h)	490	654	818	982		1310		1636	
Certifications									
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3								

\* Weight without batteries

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

# Daker Dk

## Long backup time table

Model	Power	Backup time	Dimensions and number of cabinets H x W x D (mm)	Cat. Nos.
Daker DK	1000 VA	10'	440 x 88 x 405	3 100 50
		1h 22'	440 x 88 x 405 + 440 x 176 x 405	3 100 50 + 3 107 69
		2h 44'	440 x 88 x 405 + 440 x 176 x 405 (x2)	3 100 50 + 3 107 69 (x2)
		4h 22'	440 x 88 x 405 + 440 x 176 x 405 (x3)	3 100 50 + 3 107 69 (x3)
		5h 52'	440 x 88 x 405 + 440 x 176 x 405 (x4)	3 100 50 + 3 107 69 (x4)
	2000 VA	10'	440 x 88 x 650	3 100 51
		39'	440 x 88 x 650 (x2)	3 100 51 + 3 107 70
		1h 22'	440 x 88 x 650 (x3)	3 100 51 + 3 107 70 (x2)
		1h 57'	440 x 88 x 650 (x4)	3 100 51 + 3 107 70 (x3)
		2h 44'	440 x 88 x 650 (x5)	3 100 51 + 3 107 70 (x4)
	3000 VA	8'	440 x 88 x 650	3 100 52
		34'	440 x 88 x 650 (x2)	3 100 52 + 3 107 71
		1h 6'	440 x 88 x 650 (x3)	3 100 52 + 3 107 71 (x2)
		1h 33'	440 x 88 x 650 (x4)	3 100 52 + 3 107 71 (x3)
		2h 3'	440 x 88 x 650 (x5)	3 100 52 + 3 107 71 (x4)
	4500 VA	10'	440 x 88 x 650 + 440 x 132 x 680	3 100 56 + 3 107 72
		31'	440 x 88 x 650 + 440 x 132 x 680 (x2)	3 100 56 + 3 107 72 (x2)
		56'	440 x 88 x 650 + 440 x 132 x 680 (x3)	3 100 56 + 3 107 72 (x3)
		1h 30'	440 x 88 x 650 + 440 x 132 x 680 (x4)	3 100 56 + 3 107 72 (x4)
	6000 VA	10'	440 x 88 x 650 + 440 x 132 x 680	3 100 57 + 3 107 72
		29'	440 x 88 x 650 + 440 x 132 x 680 (x2)	3 100 57 + 3 107 72 (x2)
		49'	440 x 88 x 650 + 440 x 132 x 680 (x3)	3 100 57 + 3 107 72 (x3)
		1h 11'	440 x 88 x 650 + 440 x 132 x 680 (x4)	3 100 57 + 3 107 72 (x4)
	10000 VA	7'	440 x 132 x 650 + 440 x 132 x 680	3 100 58 + 3 107 66
		18'	440 x 132 x 650 + 440 x 132 x 680 (x2)	3 100 58 + 3 107 66 (x2)
		29'	440 x 132 x 650 + 440 x 132 x 680 (x3)	3 100 58 + 3 107 66 (x3)
		42'	440 x 132 x 650 + 440 x 132 x 680 (x4)	3 100 58 + 3 107 66 (x4)
		56'	440 x 132 x 650 + 440 x 132 x 680 (x5)	3 100 58 + 3 107 66 (x5)
Daker DK3 - 1	10000 VA	7'	440 x 132 x 650 + 440 x 132 x 680	3 100 59 + 3 107 66
		18'	440 x 132 x 650 + 440 x 132 x 680 (x2)	3 100 59 + 3 107 66 (x2)
		29'	440 x 132 x 650 + 440 x 132 x 680 (x3)	3 100 59 + 3 107 66 (x3)
		42'	440 x 132 x 650 + 440 x 132 x 680 (x4)	3 100 59 + 3 107 66 (x4)
		56'	440 x 132 x 650 + 440 x 132 x 680 (x5)	3 100 59 + 3 107 66 (x5)

**NOTE:** The backup times, expressed in minutes, are measured under optimum operating conditions.

	1000 VA 2 cabinets W 2U + 4U	3000 VA 3 cabinets W 2U + 2U + 2U	6000 VA 2 cabinets W 2U + 3U	10000 VA 2 cabinets W 3U + 3U
TOWER version				

	1000 VA 2 cabinets H 6U (264 mm)	4500 VA 3 cabinets H 6U (264 mm)	6000 VA 2 cabinets 5U (320 mm)	10000 VA 2 cabinets H 6U (264 mm)
RACK version				